

Claims

1-8 Canceled

9. (New) A motor vehicle brake comprising:
- at least one brake disc or at least one brake drum;
- at least two brake linings including a carrier plate (1) and a friction layer (2) moveable into engagement with the brake disc or the brake drum; and
- a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, wherein the device for detecting the tensioning force senses variations in an electric resistance (3) of the friction layer (2) that occur upon actuation of the motor vehicle brake, and evaluates the variations to determine the tensioning force.
10. (New) A motor vehicle brake according to claim 9, wherein the detected resistance values are adjusted to a measured or calculated temperature value which is provided from a temperature-measuring element (5) to detect the temperature of the friction layer (2) or the connecting layer (12).
11. (New) A motor vehicle brake according to claim 10, wherein the friction layer (2) or the connecting layer (12) is connected to an electric conditioning circuit (7), and the output signal thereof, along with the output signal representative of the temperature value, is sent to a microprocessor (8) for evaluation.
12. (New) A motor vehicle brake according to claim 9, wherein one or more devices for continuously monitoring the electric resistance of the friction layer or the connecting layer at a defined temperature are provided, and the measuring values thereof are taken into account to detect aging effects and compensated by data stored in a microprocessor.

13. (New) A motor vehicle brake according to claim 9, wherein one or more devices for sensing the wear of the friction layer are provided, the measuring values thereof are compensated by data stored in a microprocessor.
14. (New) A motor vehicle brake comprising:
 - at least one brake disc or at least one brake drum;
 - at least two brake linings having a carrier plate (1), a friction layer (2) movable into engagement with the brake disc or the brake drum, as well as a connecting layer (12) arranged between the carrier plate (1) and the friction layer (2); and
 - a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, wherein the device for detecting the tensioning force senses variations in the electric resistance of the connecting layer (12) that occur upon actuation of the motor vehicle brake, and evaluates the variations to determine the tensioning force.
15. (New) A motor vehicle brake according to claim 14, wherein the detected resistance values are adjusted to a measured or calculated temperature value which is provided from a temperature-measuring element (5) to detect the temperature of the friction layer (2) or the connecting layer (12).
16. (New) A motor vehicle brake according to claim 15, wherein the friction layer (2) or the connecting layer (12) is connected to an electric conditioning circuit (7), and the output signal thereof, along with the output signal representative of the temperature value, is sent to a microprocessor (8) for evaluation.
17. (New) A motor vehicle brake according to claim 14, wherein one or more devices for continuously monitoring the electric resistance of the friction layer or the connecting layer at a defined temperature are provided, and the measuring values

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thereof are taken into account to detect aging effects and compensated by data stored in a microprocessor.

18. (New) A motor vehicle brake according to claim 14, wherein one or more devices for sensing the wear of the friction layer are provided, the measuring values thereof are compensated by data stored in a microprocessor.
19. (New) A motor vehicle brake comprising:
 - at least one brake disc or at least one brake drum;
 - at least two brake linings having a carrier plate and a friction layer movable into engagement with the brake disc or the brake drum; and
 - a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, wherein the device for detecting the tensioning force is formed of a force-sensing element (11) integrated into the friction layer, which supplies an electric signal upon actuation of the motor vehicle brake that is evaluated to determine the tensioning force.
20. (New) A motor vehicle brake according to claim 19, wherein one or more devices for continuously monitoring the electric resistance of the friction layer or the connecting layer at a defined temperature are provided, and the measuring values thereof are taken into account to detect aging effects and compensated by data stored in a microprocessor.
21. (New) A motor vehicle brake according to claim 19, wherein one or more devices for sensing the wear of the friction layer are provided, the measuring values thereof are compensated by data stored in a microprocessor.
22. (New) A motor vehicle brake comprising:

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at least one brake disc or at least one brake drum;

at least two brake linings having a carrier plate and a friction layer movable into engagement with the brake disc or the brake drum; and

a device for detecting a tensioning force acting upon the brake linings when the motor vehicle brake is actuated, wherein the device for detecting the tensioning force is formed of a force-sensing element integrated into the carrier plate, which supplies an electric signal upon actuation of the motor vehicle brake that is evaluated to determine the tensioning force.

23. (New) A motor vehicle brake according to claim 22, wherein one or more devices for continuously monitoring the electric resistance of the friction layer or the connecting layer at a defined temperature are provided, and the measuring values thereof are taken into account to detect aging effects and compensated by data stored in a microprocessor.
24. (New) A motor vehicle brake according to claim 22, wherein one or more devices for sensing the wear of the friction layer are provided, the measuring values thereof are compensated by data stored in a microprocessor.